

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An atmospheric pollutant treatment structure comprising:

a fan for drawing air into a case body of an engine;

cooling fins for air cooling a cylinder portion of the engine;

a catalyst layer for treating atmospheric pollutants, said catalyst layer being formed on the cooling fins; and

a shroud provided with an upper portion cover member and a lower portion cover member connected to each other so as to cover in cooperation with each other the cylinder portion and a part of an engine main body to form a cooling air passage;

a fan cover covering the fan,

wherein the upper and lower portion cover members are connected to the fan cover at positions forward of a forward-most part of the fan, and

wherein a forward-most part of the shroud is attached to the cylinder head, and a rear-most part of the shroud is attached to the fan cover at a position forward of a forward-most part of the fan.

2. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein said catalyst layer is formed on at least either an outer surface of a fan fixed to a crankshaft and disposed inside said cooling air passage or an inner surface of said shroud.

3. (Currently Amended) An atmospheric pollutant treatment structure comprising:

- a fan for drawing air into a case body of an engine;
- cooling fins for air cooling a cylinder portion of the engine; and
- a catalyst layer for treating atmospheric pollutants, said catalyst layer being formed on the cooling fins,

wherein said cylinder portion and a cylinder head are covered with a shroud, the shroud forming a cooling air passage,

wherein a forward-most part of the shroud is attached to the cylinder head, and a rear-most part of the shroud is attached to a fan cover at a position forward of a forward-most part of the fan, and

wherein an ignition plug projects from a side of the cylinder head and into a portion of the cooling air passage adjacent to the fan.

4. (Previously Presented) An atmospheric pollutant treatment structure comprising:

- a fan for drawing air into a case body of an engine;
- a fan cover covering the fan;
- cooling fins for air cooling a cylinder portion of an engine; and
- a catalyst layer for treating atmospheric pollutants, said catalyst layer being formed on the cooling fins,

wherein said cylinder portion and a cylinder head are covered with a shroud, the shroud forming a cooling air passage,

wherein a forward-most part of the shroud is attached to the cylinder head, and a rear-most part of the shroud is attached to the fan cover at a position forward of a forward-most part of the fan, and

wherein the cooling fins are provided with a plurality of circular-shaped through holes.

5. (Currently Amended) An atmospheric pollutant treatment structure comprising:
a fan for drawing air into a case body of an engine;
cooling fins for air cooling a cylinder portion of the engine; and
a catalyst layer for treating atmospheric pollutants, said catalyst layer being formed on the cooling fins,

wherein said cylinder portion and a cylinder head are covered with a shroud, the shroud forming a cooling air passage,

wherein a forward-most part of the shroud is attached to the cylinder head, and a rear-most part of the shroud is attached to a fan cover at a position forward of a forward-most part of the fan, and

wherein an ignition plug projects from a side of the cylinder head and into a portion of the cooling air passage adjacent to the fan, and

wherein edges of the cooling fins are provided with a plurality of cutouts.

6. (Original) The atmospheric pollutant treatment structure enabling treatment of pollutants during operation of a vehicle according to claim 1, wherein said pollutants are ozone.

7. (Original) The atmospheric pollutant treatment structure enabling treatment of pollutants during operation of a vehicle according to claim 2, wherein said pollutants are ozone.

8-11. (Cancelled)

12. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein the shroud is formed with a plurality of curved ribs.

13. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein said catalyst layer is formed on one of an outer surface of a fan fixed to a crankshaft and disposed inside said cooling air passage and an inner surface of said shroud.

14. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein said catalyst layer is formed on an inner surface of a body cover so as to face an air flow passage.

15. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein said catalyst layer is disposed in an air cleaner so as to be exposed to a flow of air flowing through said air cleaner.

16. (Cancelled)

17. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein said catalyst layer is a manganese compound.

18. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein the cooling fins include a plurality of through holes.

19. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein the cooling fins include a plurality of cut outs.

20. (Previously Presented) The atmospheric pollutant treatment structure according to claim 1, wherein a plurality of protrusions are integrally formed with the cooling fins, the protrusions producing turbulence in air flowing near the cooling fins.